

SEP 18, 2015

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Apple Magazine™



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iPHONES
OUT WITH
THE OLD
4 WAYS TO REUSE,
RESELL OR RECYCLE

THE NEW
iPhone 6S
3D TOUCH: A NEW FRONTIER



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APPLE SAYS SALES FOR LATEST IPHONES MAY SURPASS OTHER MODELS



Preorders for its latest iPhone have been so strong that Apple expects to surpass last year's record, when it sold 10 million phones during the first weekend.

Apple began taking preorders for the iPhone 6s and iPhone 6s Plus on Saturday.

The new models, which go on sale Sept. 25, have more memory and faster processors, along with a new 12 mega-pixel camera.

The phones have not gone up in price, but last year's record-selling iPhone 6 and 6 Plus models will now sell for \$100 less.

"As many customers noticed, the online demand for iPhone 6s Plus has been exceptionally strong and exceeded our own forecasts for the preorder period," Apple said. "We are working to catch up as quickly as we can, and we will have iPhone 6s Plus as well as iPhone 6s units available at Apple retail stores when they open next Friday."





The iPhone is still Apple's most important product. Sales of the iconic smartphone contributed more than two-thirds of the Cupertino, California, company's \$107 billion in revenue during the first half of 2015.

The newest product from Apple arrives as smartphone sales slow globally, with so many people already carrying them.

But researchers at IDC, an industry data provider, say that iPhone sales are growing faster than those of its rival, Android. IDC expects iPhone shipments to grow by 16 percent this year, while it estimates Android phones will grow only 10 percent.

Analysts said demand is being boosted partly by China, which is being included in the initial launch for the first time. Piper Jaffray analyst Gene Munster said he expects China to add 2 million units to the opening weekend.

"We believe the takeaway is that the 6S is off to a solid start and should continue to gain share at the high-end of the smartphone market," he wrote.

FBR analyst Dan Ives also said demand in China should help boost sales results, despite its volatile economy.

"While we are keeping a close eye on China given the macro backdrop and consumer worries, we believe Apple's 'white-hot momentum' in the country will continue in coming quarters," he said, since there is room to grow market share, growing demand for its App store and other selling opportunities there.

Shares of Apple Inc., based in Cupertino, California, rose \$1.47 to \$115.68 Monday.



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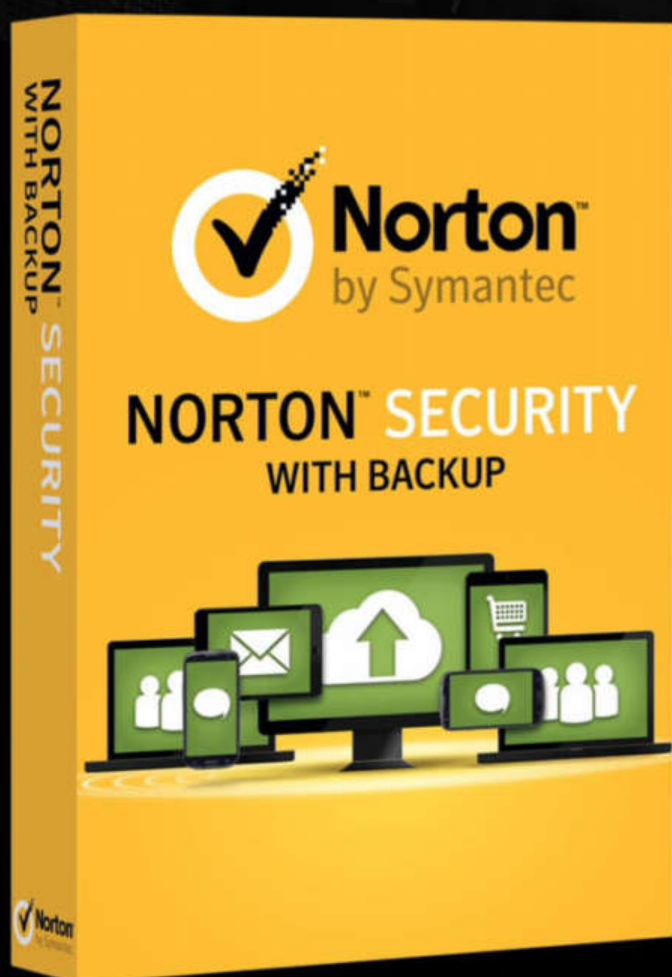
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APPLE TOUTS ENVIRONMENTAL UPGRADE IN LATEST iPHONES

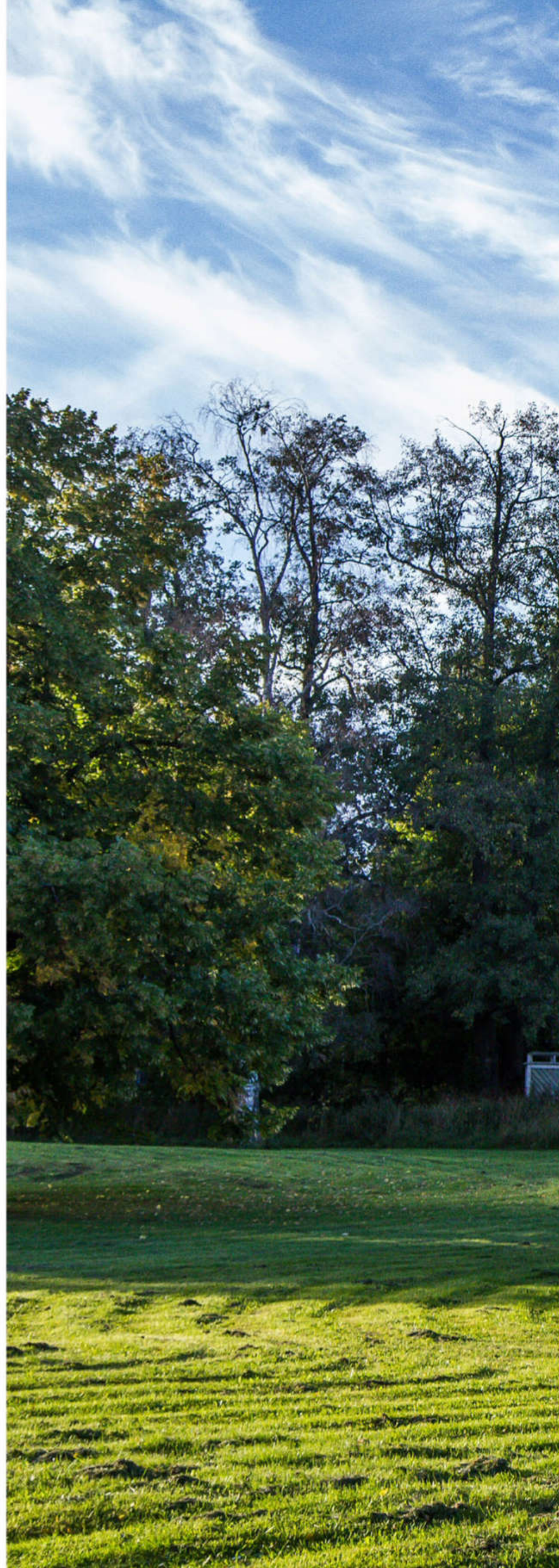
Apple has given its latest iPhones an environmental upgrade to go along with a better camera and a few new features.

The iPhone 6s and 6s Plus have reduced their carbon emissions by 14 to 16 percent from last year's models, according to Apple measurements that quantify how much pollution is caused during the production, distribution, consumer usage and recycling of the devices.

Most of the improvements reflected changes made in the purchasing and manufacturing of the aluminum used in the iPhone enclosures. Lisa Jackson, Apple's top environmental executive, told The Associated Press on Wednesday that carbon emissions tied to the production of those iPhone enclosures have been cut in half from last year.

Although those gains won't be highlighted in any of Apple's ads leading up to the Sept. 25 release of the last iPhones, the company is hoping its faithful customers will appreciate the progress.

"We feel it's really important to tell folks what we did," Jackson said. "We shouldn't keep these





kinds of ideas in a box because we believe other folks should be doing exactly the same thing.”

Other major technology companies also have been trying to reduce the pollution caused by their digital services and products, usually by investing heavily in hydroelectricity and renewable energy such as solar and wind power, to run the millions of computers that store and process data for their users.

By some estimates, technology products and services account for as much of the world’s carbon emissions as the airline industry.

Besides Apple Inc., both Google Inc. and Facebook Inc. have also been praised by environmental groups for reducing their reliance on power plants that burn coal and natural gas.

Apple boasts that all its data centers, offices and stores in the U.S. are now powered by renewable energy. On a worldwide basis, about 13 percent of Apple’s operations still draw on power generated from fossil figures. The Cupertino, California, company has pledged to eliminate all fossil fuels from its energy mix.

Apple is also pressuring the hundreds of suppliers of that make and assemble parts for its gadgets to become more environmentally friendly. As part of that resolve, Apple put a higher priority on equipping its latest iPhones with aluminum produced with hydroelectric power.

“It’s a first step, but it’s the kind of work you have to do to turn the corner,” Jackson said. “At the end of the day, if environment is one of our values, then also want it to show up in our products.”





[illegible]

It's all about Apple

The background of the advertisement is a photograph of a modern workspace. A white laptop is open on a light-colored desk. In front of the laptop, a pair of tortoiseshell-rimmed glasses and a black pen rest on a stack of papers. To the right of the laptop is a black disposable coffee cup with a white lid, and further right is a clear glass of water. The scene is brightly lit by natural light coming from a large window in the background, which shows a blurred view of green trees and a brick wall.

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WHAT TO LOOK OUT FOR AT THE FRANKFURT AUTO SHOW





New small cars for the mass market from Opel and Renault and powerful, expensive SUVs from Jaguar and Bentley for the upper crust are among the top offerings on display this week at the Frankfurt International Motor Show.

A rise in demand for cars in the United States and Europe is lifting automakers' spirits as they prepare to open the show to news media on Tuesday and to the general public on Saturday. Held every other year, the 66th edition runs through Sept. 27.

The mood will be buoyed by a 23-month streak of rising sales in Europe, coming off a terrible slump during the 2009 recession and the subsequent debt crisis among countries that use the euro currency. European Union sales rose 8.2 percent in the first half of this year. U.S. sales are on pace to exceed 17 million vehicles for the first time since 2001.

Here are five major themes at the show.

CHINA TROUBLES

Falling demand for new cars in China is a concern for global automakers, but none more than the host Germans. Daimler AG's Mercedes-Benz, Volkswagen AG's Audi, and BMW AG have all fattened sales and profits there through exports and cars built with local partners in joint ventures. Executives have already warned of what they call a "normalization" of the China car market after years of very rapid growth.

Analyst Max Warburton at Sanford C. Bernstein said that executives would probably stick to their cautious outlooks for China and argue the troubles are a temporary blip. He suggested some might want to whistle a few bars of





“Always Look on the Bright Side of Life” from the Monty Python film, “The Life of Brian.”

“Standing on multi-million dollar show stands, surrounded by multi-billion dollar investments (most aimed at China), perhaps it’s best to put on a brave face,” he wrote in an email.

RIDING HIGH

Luxury SUVs are a thing this year. High-priced brands are looking to expand their model range and find ways to tap the lucrative end of the market. Bentley, the luxury brand owned by Volkswagen, has its Bentayga, which combines stylish touches such as the classic large Bentley front grille and a choice of 15 interior leather colors with off-road features such as a front skid plate and aluminum roof rails. The company is touting not just luxury but power and speed; the vehicle has 608 horsepower and a top speed of 301 kph (187 mph).

Jaguar has the F-Pace, which uses chassis underpinnings from its sports cars that are aimed at providing sharper handling for the company’s first entry into the SUV race. Mercedes-Benz offers its GLC, a midsize car-like crossover SUV that shares mechanical and design elements with its C-Class sedan.

THE REST OF US

Mass-market carmakers face brutal competition in the market for more basic transportation. Renault is showing off the fourth generation of its Megane with a slightly wider stance and shorter overhangs to give it a sportier look, and offers a GT performance version immediately at sales launch. GM’s redesigned Opel Astra

should be sprightlier after losing up to 200 kilograms (440 pounds) in weight compared to its predecessor. Its entertainment system supports both the Android Auto and Apple Carplay standards, enabling drivers to use their smartphone messaging and navigation functions through the car's dashboard display.

NEW TECHNOLOGY

Carmakers are preparing to fend off tech companies like Google and Apple from dominating the market for services to Internet-connected cars. Those new businesses could include real-time navigation that automatically plots routes around traffic jams or slippery conditions. Or it could be a parking place finder that quickly guides the driver to that last elusive spot in a crowded city on a Saturday night.

The question is who will build the systems and reap the profits - and how?

Analysts say carmakers may have to band together to come up with common platforms and shared systems that can quickly draw in masses of data and dominate the business - just as Internet companies such as Facebook, LinkedIn and Amazon have done in their spheres. A sign of things to come could be the recent deal in which Daimler, Volkswagen's Audi and BMW teamed up to buy Nokia's HERE digital mapping service.

In the field of automated driving, BMW is introducing a new version of its large, luxurious 7-Series sedan that can maneuver in and out of tight parking spaces while the driver stands outside and presses a button on a remote.





THE HOME TEAM

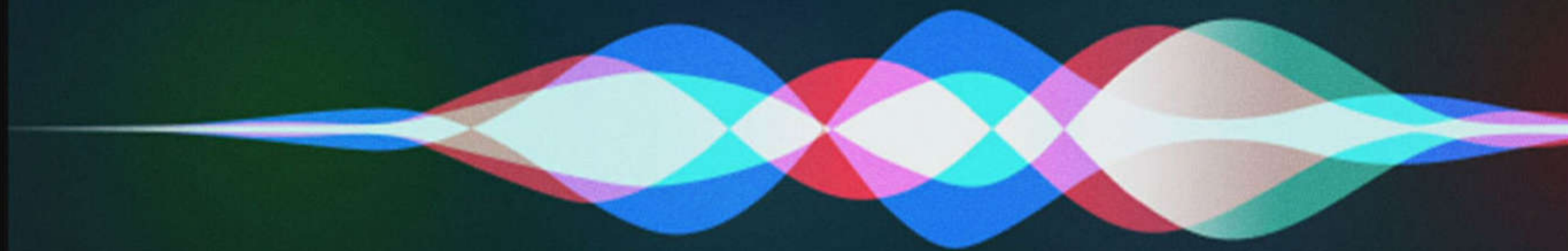
The German carmakers will do a little chest-thumping at their home show with huge pavilions and thunderously loud audio-visual displays at Frankfurt's Messe exhibition center. BWM is building a 400-meter (quarter-mile) test track inside its pavilion so its vehicles can whiz past showgoers. Audi is putting up a separate three-story building with space for 33 vehicles and 200 kilometers (120 miles) of cables.

Tim Urquhart, an analyst with IHS, says after years of strong sales growth by German companies, "the coffers are full and confidence levels are high - as, it seems, is the desire to one-up neighbors and closest competitors on home turf."

A close-up, low-angle shot of the rear of a dark blue car. The focus is on the right-side taillight assembly, which features a prominent, glowing yellow and orange LED light bar. The car's body is highly reflective, showing distorted, wavy patterns of light and shadow. Below the taillight, the 'F-PACE' badge is visible in a silver, italicized font.

F-PACE

SMARTER SIRI, BETTER BATTERY LIFE IN APPLE SOFTWARE UPDATE





Apple's iPhones and iPads are getting free software updates Wednesday, including battery improvements and a smarter virtual assistant.

The new features and capabilities in the update, iOS 9, are primarily refinements rather than anything transformative. But the new software is still worth getting, especially as new apps often require the latest version to work.

Apple Watch was also supposed to get a software update Wednesday, but that got delayed because Apple found a bug. A separate Mac update, known as El Capitan, is coming out this fall.

Here are some things to know about Wednesday's updates:

ON THE IPHONE

Although some features such as 3D Touch contextual menus will require the new iPhones that are coming next week, existing devices will get:

Battery life: Besides under-the-hood improvements, a new low-power mode will reduce or turn off non-essential tasks such as visual effects and automatic downloads. The phone also won't check for new mail or update content for apps in the background as often.

Navigation: From the main home screen, swipe left to right for a new search screen. The Siri virtual assistant suggests frequently used contacts and apps and nearby businesses, taking into account whether it's evening or lunch time. As you jump around from app to app, some apps show a new back button on the top left corner to get you back to what you were doing.

What can I help
you with?





Notifications: Swipe down from the top edge for missed notifications, with the most recent on top. Before, they were grouped by app, so you had to sift through weeks-old notifications from little-used apps to find the new ones. You can restore grouping by app in the settings.

Sleeping in: If you choose a particular song as your alarm sound, the song will keep playing until you turn off the alarm or hit snooze. Before, the alarm automatically stops once the song ends, even if you didn't hear it. Now, you'll hear it over and over - though that might just encourage you to stay in bed.

Security: If you have a new device with fingerprint ID, you'll be asked to create a longer passcode as a backup, with six digits instead of four. Because you'll need to enter your passcode less often, it might as well be stronger. The four-digit passcode won't change if you're simply upgrading rather than setting up a new device.

Getting there: Apple Maps gets transit directions in major cities, addressing a major omission. In some cities, including New York and London, Apple sent teams to map out subway entrances for more precise directions to and from stations - helpful when stations stretch for blocks underground.

Gone: The Newsstand icon disappears, replaced by an unrelated News service. Go directly to the publication's app for your subscriptions. You can recreate Newsstand by putting all the apps into the same folder. Passbook gets replaced by Wallet, now that the Apple Pay payment service is becoming a bigger part of Apple's ambitions. Apple Pay will now work with store-branded credit cards and loyalty cards, though it'll be

up to merchants to decide when they'll start accepting them.

ON THE iPad

Though Apple's larger-screen iPad Pro for business customers isn't coming until November, existing iPads get the new iPhone features, along with others geared toward improving productivity:

Multitasking: Swipe left from the right edge to run a second app, such as Maps to look up directions or Notes to jot down reminders. The choices are limited for now, but expect more developers to support that function. You can also run video in a small window while another app uses the rest of the screen. Do this by tapping an icon on the lower right of the video. You can move the video window to any corner or resize it by pinching in and out. It works only with a few video apps for now, but more are coming.

Laptop-like controls: Place two fingers on the on-screen keyboard and start sliding around the screen to move the cursor around.





HOW TO GET

Back up your device and make sure your favorite apps will be compatible. Popular apps will likely have updates right away, but obscure ones might need more time to catch up.

When you're ready, go to "General," then "Software Update" in the settings. You need at least 1.3 gigabytes of free space.

You also need an iPhone or an iPad released in 2011 or later, or an iPod Touch since 2012. Not every feature will work with older models, so you might consider a new phone instead. New devices will ship with the updates already installed.

The new iPhone 6S and 6S Plus: a much closer look

12-megapixel
camera with
new photo and
video functions









"iPhone 6 and iPhone 6 Plus are the most loved phones in the world, with customer satisfaction literally off the charts and far above any other phone. So, how do you follow a success like this? I am thrilled to show you the newest iPhones."

That's the gist of how Apple boss Tim Cook set the stage for the exciting official reveal of the iPhone 6S and iPhone 6S Plus earlier this month. Their names suggest small, rather than groundbreaking, improvements on last year's models - but would this really be a fair assessment of the phones themselves? What new features do they come with? And what implications could these features have for how millions of people use the iPhone?

3D TOUCH: THIS COULD CHANGE EVERYTHING...

As is typical with Apple, the new iPhones have been bolstered with plenty of exciting new features and minor tweaks, which can collectively help to enhance the iPhone experience in both expected and unexpected ways. However, one major addition that has drawn especially large attention so far - a marquee feature, if you will - is the new 3D Touch interface.

"3D Touch?" we can picture you wondering. "That seems familiar..." Perhaps it has reminded you of Force Touch, the pressure-sensitive technology that was first integrated into the Apple Watch to thankfully much ease access of a high number of advanced features through its tiny screen. So, has Force Touch now been extended to the iPhone and rebranded along the way?

Not quite. Many press outlets reporting on the then in-development iPhone 6S models, **including AppleMagazine**, indeed confidently predicted the inclusion of Force Touch, which can detect the difference between a light tap and a firm press on a touchscreen and accordingly bring up different features. However, 3D Touch can also detect a third level - or, should we say, dimension - of pressure. Naturally, this means that an even more generous number and range of features can be quickly activated.

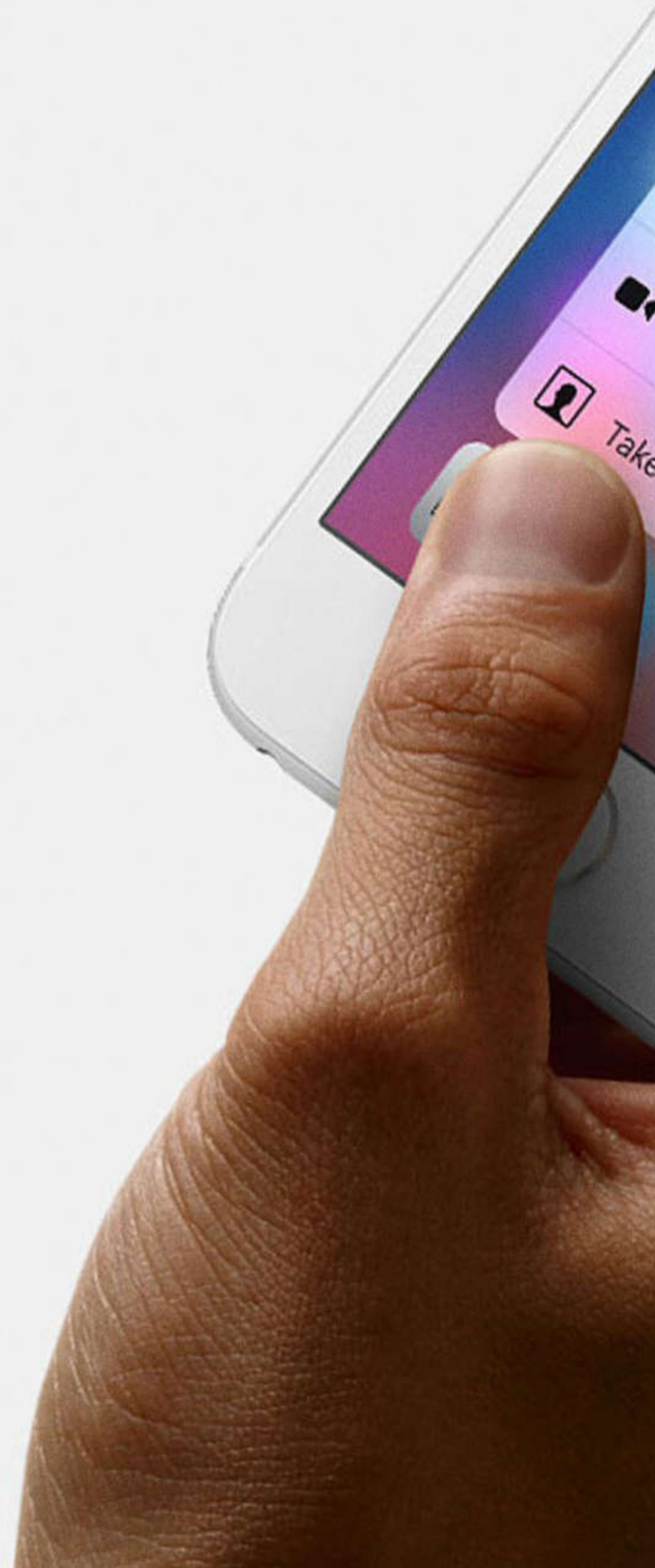


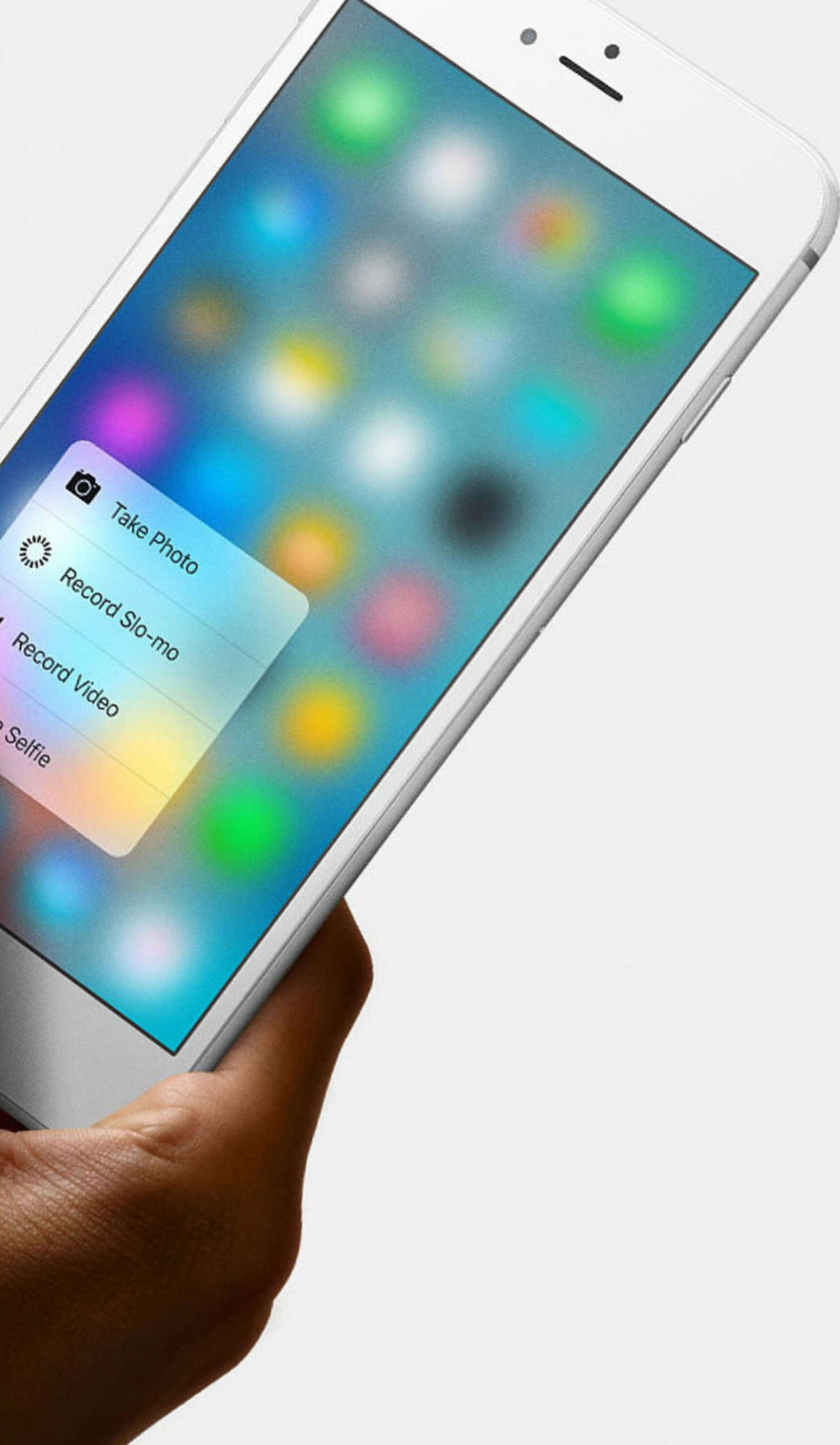


SELFIES, PHOTOS, EMAILS AND MORE ARE ALL NOW MUCH EASIER

So, that's what 3D Touch technically is. But how can it be used to great effect in practice? The new iPhone 6S screen commercial, which Apple debuted at the launch event, demonstrates this well. Perhaps you caught sight of the "emergency selfie" feature, where the Camera app icon can be tapped lightly to speed up access to the selfie camera - Selena Gomez even appears with a "Thanks!" And then there were the glimpses of photos, a song, a text and an email all being "popped" open - in other words, previewed - in a similar manner.

All of these are great time-saving measures - just imagine, to cite a few instances, "popping" up an email that has arrived just as you are in a hurry to leave the house, taking a prompt selfie at one of those typically short-lived "you had to be there" moments, or previewing a song to quickly check if it really was the one that your friend said they really liked but couldn't recall the name of.













A SOPHISTICATED NEW TECHNOLOGY THAT REMAINS EASY TO GET USED TO

Usually, when tapping on an iPhone screen, any feedback from the handset is strictly visual. However, with the new iPhones, every successful “peek” and “pop” produces small physical vibrations for ten or fifteen milliseconds - to use the appropriate terminology, a haptic tap. This is basically the iPhone’s way of congratulating the user on using the correct touch gesture, and has seemingly been built in to help guide users who need time to familiarize themselves with 3D Touch.

Craig Federighi, Apple’s senior vice president of Software Engineering, has recalled to Bloomberg that **“while the hardware was measuring force, the software needed to measure intent.”** Charles Arthur of IBTimes reports from hands-on testing that, within apps, **“3D Touch’s haptic feedback gives a pleasing “pop” feeling when you make it work.”** The pleasant sensation of this feedback can only encourage more iPhone 6S owners to regularly use 3D Touch functions and, in the process, adapt to them. Bloomberg’s Josh Tyrangiel insists: “3D Touch will be judged a success only when its existence fades completely into a user’s subconscious. It takes about four minutes.”

iOS 9 TAKES SEVERAL LEAPS FORWARD THANKS TO THE NEW IPHONES

3D Touch is therefore, as you can now see, built into many different facets of iOS 9 - but only on the version of this new operating system pre-installed on the new iPhones. Apple already gave the world **a thorough preview of iOS 9 at its Worldwide Developers Conference in June** - but many more of its exciting new features draw heavily upon the unique hardware of these iPhones, some to the extent that they are exclusive to these devices.

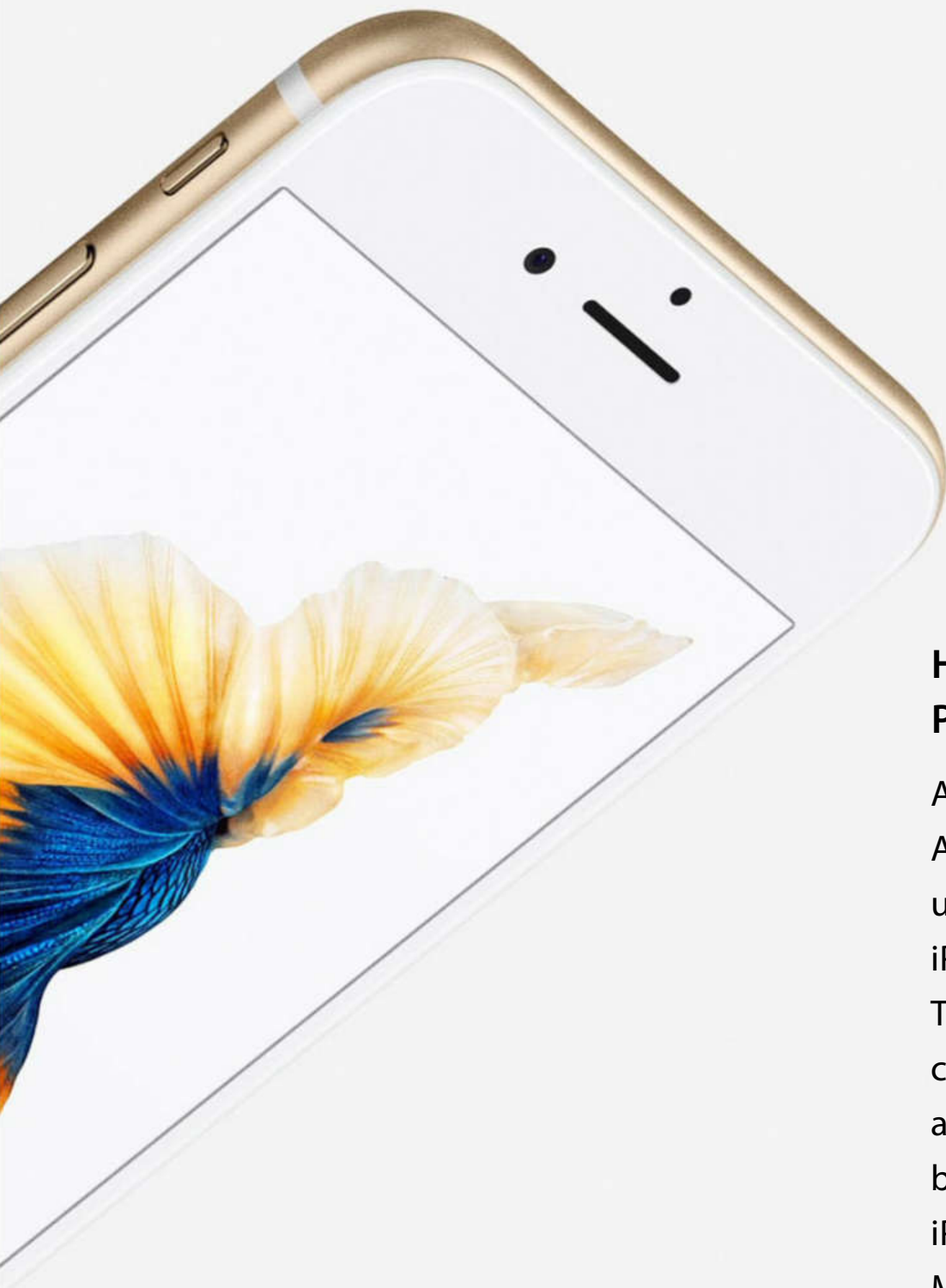
So, all of the typical built-in iOS apps, like Mail, Safari and Messages, are there alongside sophisticated recent additions like the hugely revamped Music, plus Health, News and CarPlay. Meanwhile, the new, second generation Touch ID means that virtual locking of the phone and using Apple Pay are now even more secure on the the iPhone 6S and 6S Plus than on any of their predecessor models.

The new, upgraded rear iSight camera, which can now capture photos in 12 megapixels and 4K video, both firsts in any iPhone, also makes great use of iOS 9 with one particularly eye-opening feature, and one that was seemingly never mentioned in any of the various information leaks ahead of its formal reveal: Live Photos. Basically, take a Live Photo and 1.5 seconds of video on either side of the shot are also taken. This means that the movement and sound of that special moment can also be re-experienced - even on other Apple devices.









HEY SIRI! WHAT CAN THAT NEW A9 PROCESSOR DO?

Another first in any Apple device is the new A9 processor; of the company's new products unveiled this month, only the upcoming iPad Pro will run on a more advanced chip. There are quite a few impressive numbers to crunch here: this A9 processor will result in a 70% boost in CPU performance and 90% better graphics performance in the new iPhones, and also includes an embedded M9 motion coprocessor. This part of the chip can recognize voice commands made to Siri, including the greeting "Hey Siri" that can activate the loveable virtual assistant.

This coprocessor can also be of much use to fitness buffs. Different types of fitness tracking, including measurement of running or walking pace and distance, are possible through the accelerometer, compass, gyroscope, and barometer that the M9 coprocessor services. These functions can leave your training regime looking a lot more rosy... which leads us nicely onto the subject of an especially striking cosmetic change.





THE NEW IPHONES ARE LOOKING ROSY... AND SOME ARE ROSE GOLDY

Something you might also have caught sight of in that iPhone 6S commercial is the new rose gold color. In fact, you might even have already preordered a new iPhone in that color, judging by **its clear popularity since preorders opened**. Though the color initially looks like - and has been casually called - pink, the term “rose gold” certainly hasn’t originated from Apple, having already **long been used by jewellers to describe gold with additional copper**.

Whatever you call it, many people have concurred with the claim of that commercial’s voice-over that this new color is “awesome” - and that’s a fitting word for describing the new iPhones as a complete package. Far from the modest update initially widely predicted, the iPhones could deliver - largely thanks to 3D Touch - yet another revolution leaving the competition rushing to keep up. Well, Apple did say it: the only thing that has changed is everything... ■

by Benjamin Kerry & Gavin Lenaghan



MICROSOFT NAMES BRAD SMITH PRESIDENT AND CHIEF LEGAL OFFICER

Microsoft has given longtime executive Brad Smith the title of president, as the company continues its transition to a new generation of leadership.


Smith's full title will be president and chief legal officer. He has been Microsoft's general counsel since 2002 and became an executive vice president in 2011.

CEO Satya Nadella announced the appointment in an email Friday to employees. Nadella said he wants Smith to play a bigger role in strengthening Microsoft's relationships and representing the company publicly. Smith will help lead the company on issues like privacy, security and accessibility, he said.

Smith, 56, joined Microsoft in 1993 and has held several other titles, including company secretary.

Smith is a familiar face for investors because he has been a regular presence on the company's investor conference calls for almost a decade, said industry analyst Katherine Egbert of Piper Jaffray.





“It is interesting that they would put him as president of the company because he doesn’t come from the operational side,” she said. “I think it’s a promotion of someone who’s been a solid executive for them for a long time.”

Nadella replaced Steve Ballmer as CEO of Microsoft Corp. in February 2014, and co-founder Bill Gates stepped down as chairman at the same time. Ballmer retired from Microsoft a few months later. Gates remains an adviser to the company and John Thompson is now the independent chairman of Microsoft.

Microsoft’s stock climbed steadily after Nadella became CEO, but in the last few months the shares have struggled because the PC industry is in a slump. In July the Redmond, Washington-based company reported another decline in profit and revenue from its Windows software for PCs.

Under Nadella’s leadership, Microsoft has been investing in new services and redesigning its most popular programs for smartphones and other mobile devices. The company has also announced the elimination of some 26,000 jobs as Nadella retreats from Ballmer’s strategy of having Microsoft make its own smartphones and tablets. In July the company wrote down the value of Nokia’s phone business, which it bought just a year earlier, by \$8.4 billion.

Microsoft also recently launched Windows 10, a free upgrade that it says will be the last version of Windows before it moves to a fee-for-service model at some point in the future.

Shares of Microsoft Corp. rose 19 cents to \$43.48 on Friday. The stock is down 7.5 percent over the last year.

OUT WITH THE OLD...iPHONES? 4 WAYS TO REUSE, RESELL, RECYCLE



Phon



Each year, Apple dazzles its devoted fans with faster, sleeker, more powerful iPhones with better cameras and a bevy of bells and whistles. So, what's to become of last year's model?

Instead of sentencing it to a lonely existence in a desk drawer, there are plenty of ways to reuse, recycle or resell older phones. Here are a few:

DONATE TO CHARITY

Several charities accept old phones for donation, though it's worth remembering that these groups probably won't physically give your old phones to people in need. Rather, they work with phone recyclers and sell your donated phones to them.

A nonprofit group called Cell Phones for Soldiers will take your "gently used" phone and sell it to a recycling company. It will then use the proceeds to buy international calling cards for soldiers so they can talk to their loved ones back home.

The National Coalition Against Domestic Violence works in a similar manner. About 60 percent of the phones it collects are refurbished and resold. The money goes toward supporting the coalition. The remaining 40 percent of the phones are recycled, according to the group's website. It pays for shipping if you are mailing three or more phones. The group also accepts other electronics such as laptops, video game systems and digital cameras.

\$ELL FOR \$OME CA\$H

You can always join the eBay hordes and sell your phone on the site for a few hundred bucks, if you are lucky. There will likely be a flood of the gadgets soon after people start

getting their new phones, so it might make sense to wait a little.

There are also plenty of other options. A company called Gazelle will make an offer for your old phone based on its condition, your phone carrier and other information. For example, a 64 gigabyte iPhone 6 on AT&T in good condition (no cracks, major scratches or scuffs, turns on and makes calls), would get you \$305 this week. The same phone on Sprint, meanwhile, would rake in \$220.

Glyde.com also offers to help you resell your old phone. A recent check showed the same iPhone, with charger included, getting you \$376.10 - provided there is a buyer.

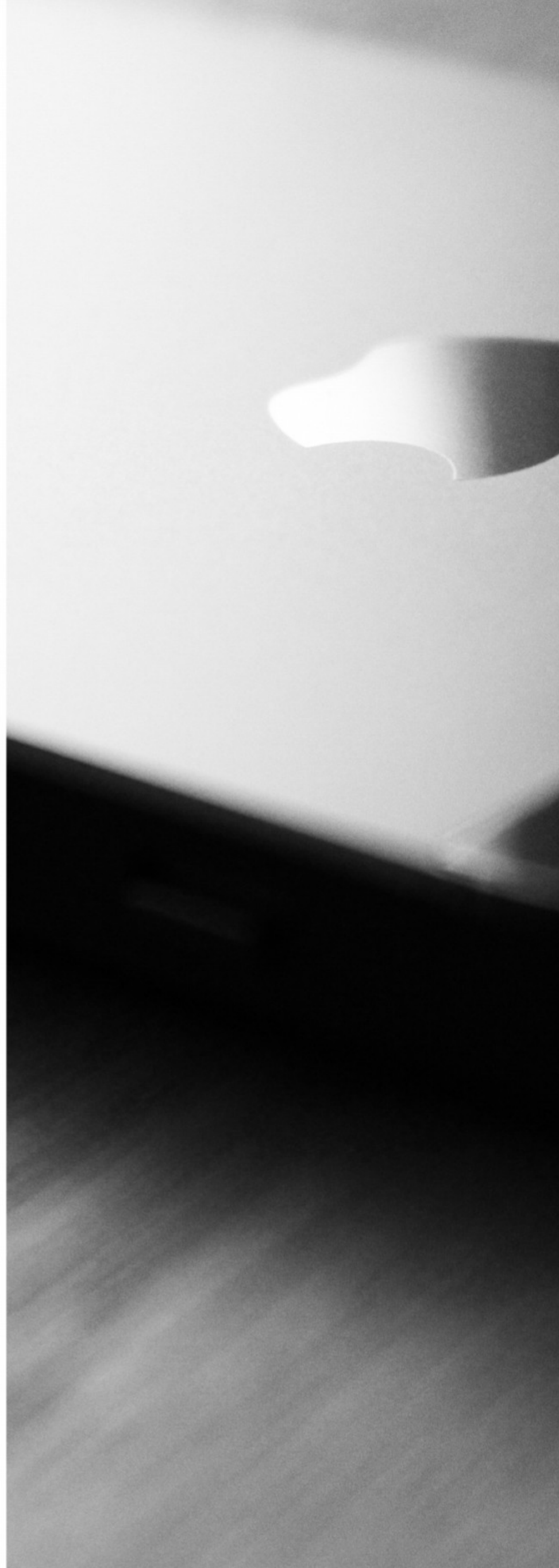
TRADE IN FOR SOMETHING ELSE

Apple will give you store credit for old devices that you can then use for new gadgets. You can do this in a retail store or online, where you'll get an estimate before mailing in your phone. An online check for the phone above yielded an estimated \$325 Apple Store gift card this week.

The video game retailer GameStop, meanwhile, offers cash or store credit for old iPhones (along with iPods and iPads).

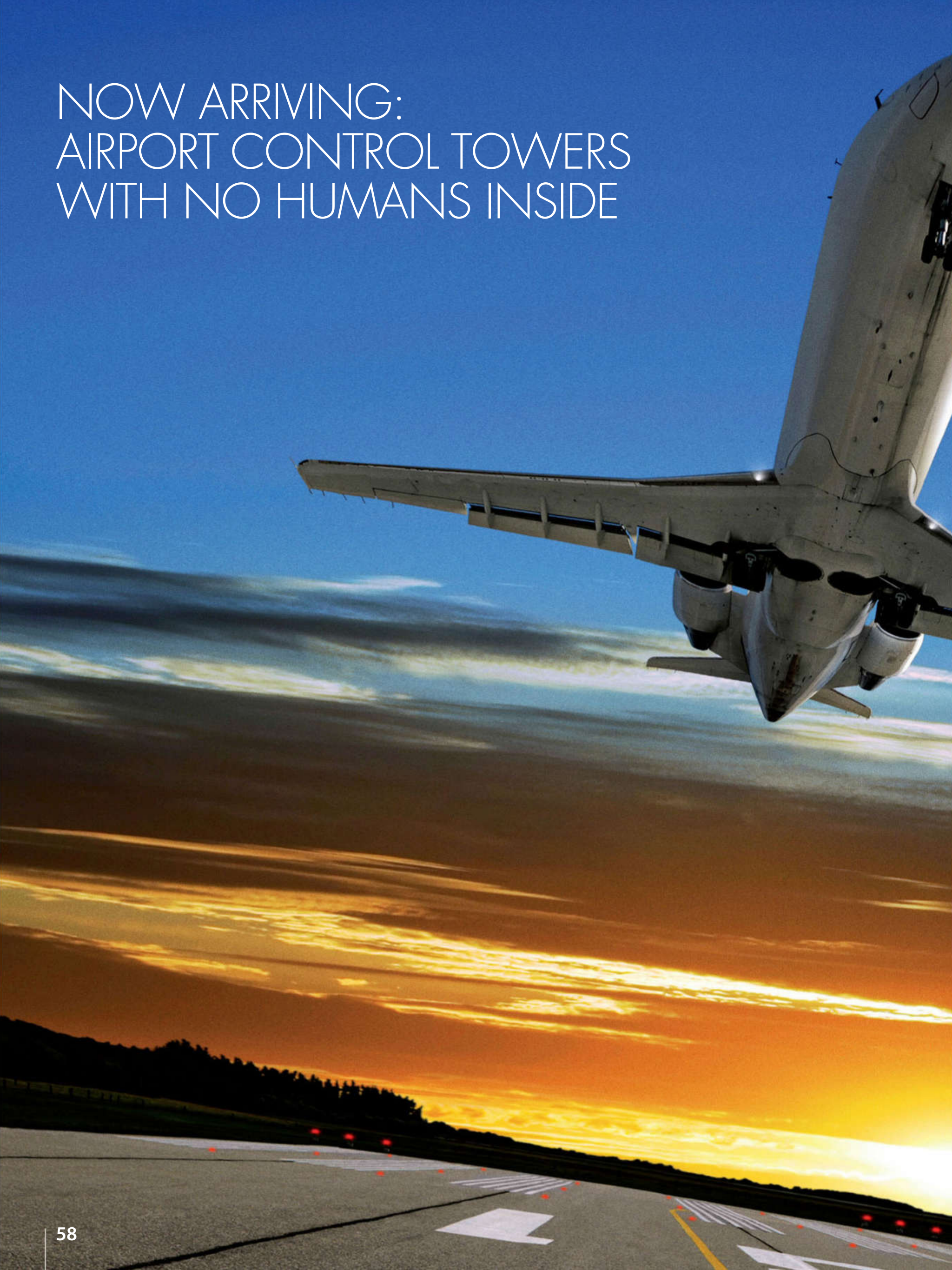
REUSE, REPURPOSE

Even without cellular service, your old phone will be able to get on Wi-Fi, so you can use it to stream music, post on Facebook or do pretty much anything else you want provided you are in Wi-Fi range. Keep it for yourself, or load it up with kid-friendly apps and games and hand it down to your children.





NOW ARRIVING:
AIRPORT CONTROL TOWERS
WITH NO HUMANS INSIDE





Passengers landing at remote Ornskoldsvik Airport in northern Sweden might catch a glimpse of the control tower - likely unaware there is nobody inside.

The dozen commercial planes landing there each day are instead watched by cameras, guided in by controllers viewing the video at another airport 90 miles away.

Ornskoldsvik is the first airport in the world to use such technology. Others in Europe are testing the idea, as is one airport in the United States. While the majority of the world's airports will, for some time, still have controllers on site, experts say unmanned towers are coming. They'll likely first go into use at small and medium airports, but eventually even the world's largest airports could see an array of cameras mounted on a pole replacing their concrete control towers.

The companies building these remote systems say their technology is cheaper and better than traditional towers.

"There is a lot of good camera technology that can do things that the human eye can't," says Pat Urbanek, of Searidge Technologies, "We understand that video is not real life, out the window. It's a different way of surveying."

Cameras spread out around an airport eliminate blind spots and give controllers more-detailed views. Infrared can supplement images in rain, fog or snow and other cameras can include thermal sensors to see if animals stray onto the runway at the last second.

None of those features are - yet - in the Swedish airport because of regulatory hurdles.

Ornskoldsvik Airport is a vital lifeline for residents who want to get to Stockholm and the rest of the world. But with just 80,000 annual passengers, it can't justify the cost of a full-time control staff - about \$175,000 a year in salary, benefits and taxes for each of six controllers.

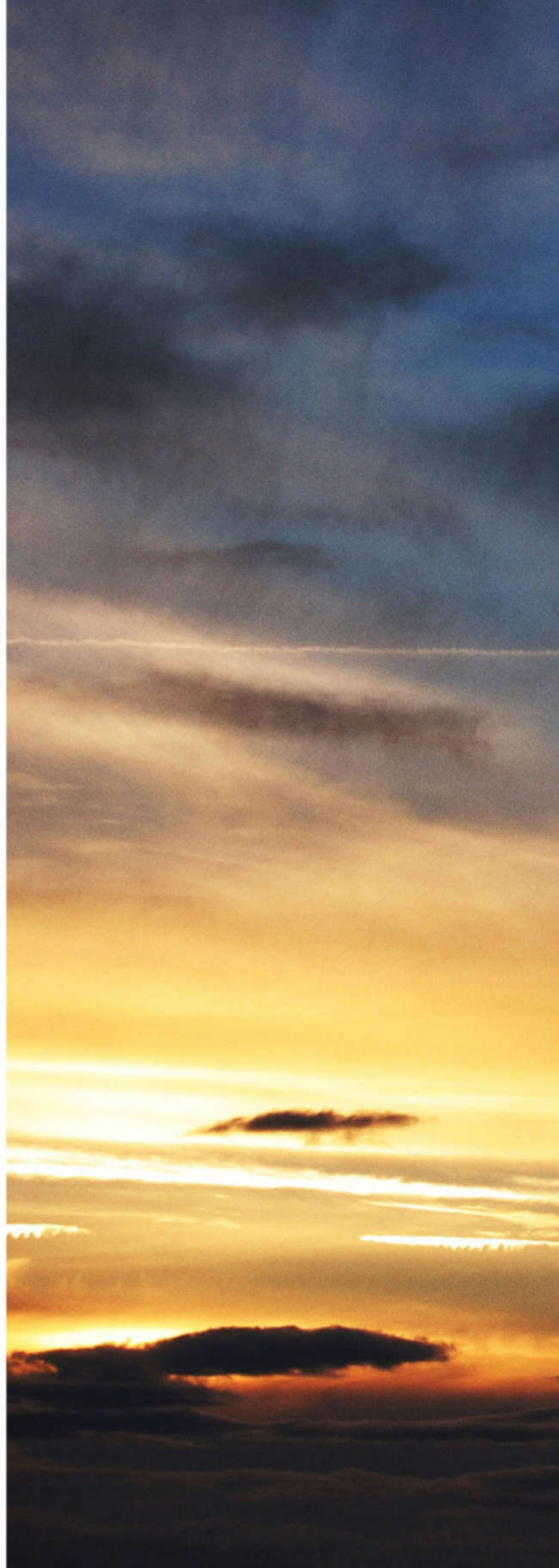
In April, after a year and a half of testing a system designed by Saab, all the controllers left Ornskoldsvik. Now, an 80-foot tall mast housing 14 high-definition cameras sends the signal back to the controllers, stationed at Sunvsal Airport. No jobs have been eliminated but ultimately such systems will allow tiny airports to pool controllers.

Old habits are hard to break. Despite the ability to zoom in, controllers instinctively grab their binoculars to get a closer look at images on the 55-inch TV screens. And two microphones were added to the airfield at Ornskoldsvik to pipe in the sounds of planes.

"Without the sound, the air traffic controllers felt very lost," says Anders Carp, head of traffic management for Saab.

The cameras are housed in a glass bubble. High pressure air flows over the windows, keeping them clear of insects, rain and snow. The system has been tested for severe temperatures: 22 degrees below zero and, at the other extreme, a sizzling 122 degrees.

Niclas Gustavsson, head of commercial development for LFV Group, the air navigation operator at 26 Swedish airports, says digital cameras offer numerous possibilities for improving safety.









Computers can compare every picture to the one a second before. If something changes - such as birds or deer crossing the runway - alerts are issued.

"Maybe, eventually there will be no towers built at all," says Gustavsson.

Saab is currently testing - and seeking regulatory approval - for remote systems in Norway and Australia and has contracts to develop the technology for another Swedish airport and two in Ireland.

Competitor Searidge is working on a remote tower for the main airport in Budapest, Hungary. That airport serves 8.5 million passengers annually and, within two years, controllers could be stationed a few miles from the airport.

Now, Saab is bringing some aspects of this technology to the United States.

Leesburg Executive Airport in Virginia is a relatively busy airport with 300 daily takeoffs and landings. Just a few miles from Dulles International Airport, Leesburg does not have its own control tower. A regional air traffic control center clears private jets into the airspace and then pilots use an established radio frequency to negotiate the landing and takeoff order. That often leads to delays.

Saab has built a system for Leesburg and on Aug. 3 started a three-month test with the Federal Aviation Administration. FAA controllers will, at first, familiarize themselves with the technology and just observe the planes operating as they already do today. If the FAA approves, the next phase would be to start clearing planes onto taxiways and to take off and land.

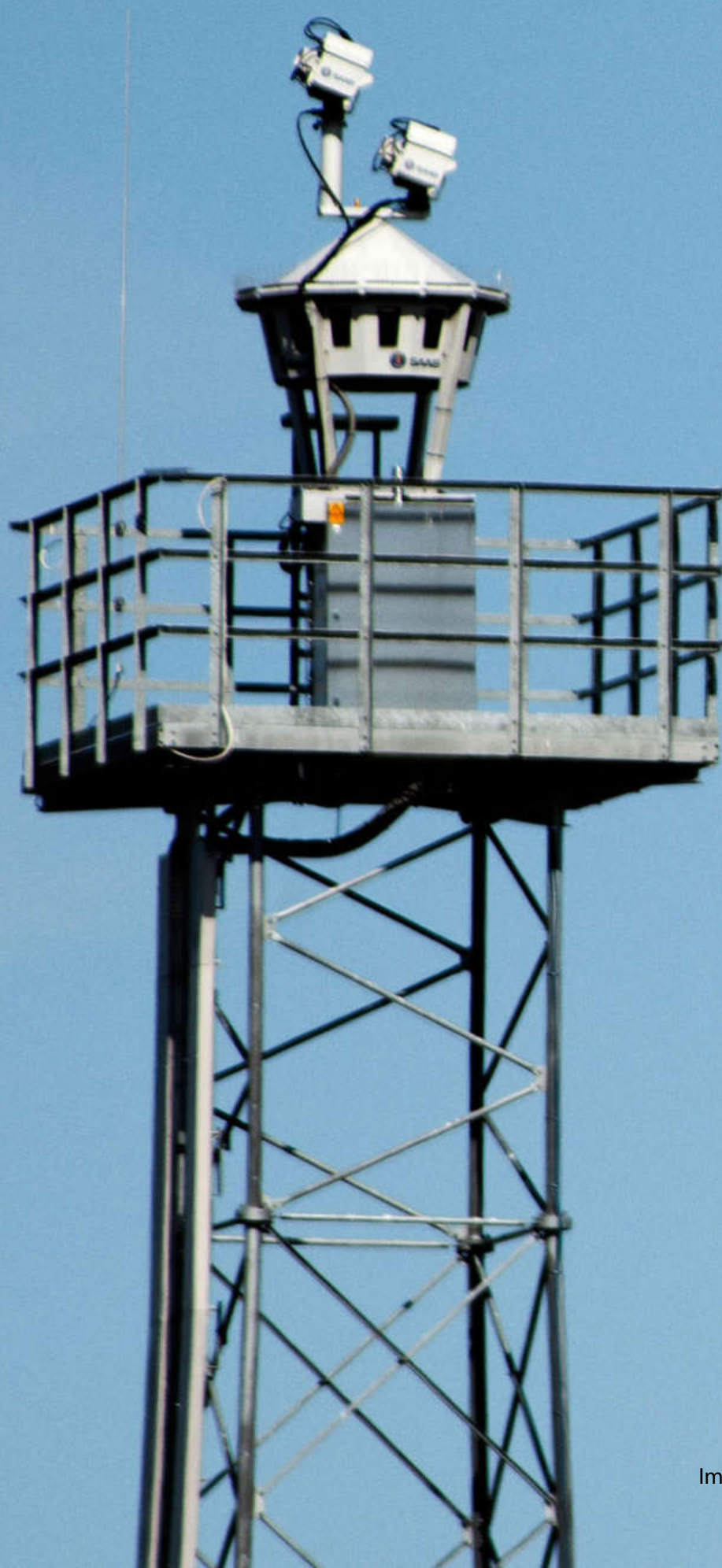


Image: Stefan Kalm

The National Air Traffic Controllers Association says it is participating in the testing.

Towers for large commercial airports are expensive. They need elevators, air conditioning and heating, fire suppression systems plus room for all the controllers. A new tower in Oakland, California that opened in 2013 cost \$51 million. Towers at smaller airports are cheaper. Fort Lauderdale Executive Airport opened a new one in February at a cost of \$15.4 million. Saab won't detail the cost of its system except to say it is "significantly less." There is no need for a tower and elevator.

The companies see a giant market: The vast majority of U.S. commercial airports - 315 of 506 - have control towers. However, only 198 of the 2,825 general aviation airports have manned towers.



TOP Free Apps

iOS



#01 – Facebook Messenger

By Facebook, Inc.

Category: Social Networking

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5, iPhone 6, and iPhone 6 Plus.



#02 – Facebook

By Facebook, Inc.

Category: Social Networking

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5, iPhone 6, and iPhone 6 Plus.



#03 – Instagram

By Instagram, Inc.

Category: Photo & Video

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5, iPhone 6, and iPhone 6 Plus.



#04 – YouTube

By Google, Inc.

Category: Photo & Video

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5.



#05 – Snapchat

By Snapchat, Inc.

Category: Photo & Video

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5.

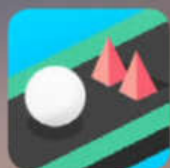


#06 – Pop the Lock

By Simple Machine, LLC

Category: Games

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



#07 – Slow Down

By Ketchapp

Category: Games

Requires iOS 6.0 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).

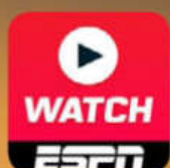


#08 – Star Wars™: Uprising

By Kabam

Category: Games

Requires iOS 7.0 or later. Compatible with iPhone 4S-iPhone 6s, iPhone 6s Plus, iPad 2 Wi-Fi-iPad Pro Wi-Fi + Cellular, iPod touch (4th generation)-iPod touch (6th generation).



#09 – WatchESPN

By ESPN

Category: Sports

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



#10 – Happy Wheels

By Jim Bonacci

Category: Games

Requires iOS 6.0 or later. Compatible with iPhone 4S-iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).



#01 – OS X Yosemite

By Apple

Category: Utilities

Compatibility: OS X 10.6.8 or later



#02 – App for Instagram

By Joacim Ståhl

Category: Social Networking

Compatibility: OS X 10.7 or later, 64-bit processor



#03 – Xcode

By Apple

Category: Developer Tools

Compatibility: OS X 10.8.4 or later



#04 – Octagon

By Lukas Korba

Category: Games

Compatibility: OS X 10.8 or later, 64-bit processor



#05 – Microsoft Remote Desktop

By Microsoft Corporation

Category: Business

Compatibility: OS X 10.7 or later, 64-bit processor



#06 – Kindle

By AMZN Mobile LLC

Category: Reference

Compatibility: OS X 10.6 or later



#07 – ooVoo Video Call, Text and Voice

By ooVoo LLC

Category: Social Networking

Compatibility: OS X 10.7 or later, 64-bit processor



#08 – Slack

By Slack Technologies, Inc.

Category: Business

Compatibility: OS X 10.7 or later, 64-bit processor



#09 – Microsoft OneNote

By Microsoft Corporation

Category: Productivity

Compatibility: OS X 10.9 or later



#10 – App for Youtube

By Joacim Ståhl

Category: Social Networking

Compatibility: OS X 10.7 or later, 64-bit processor

TOP Free Apps

Mac OS X

TOP Paid Apps

iOS



#01 – Minecraft – Pocket Edition

By Mojang

Category: Games / Price: \$6.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



#02 – Scribblenauts Remix

By Warner Bros.

Category: Games / Price: \$0.99

Requires iOS 5.1.1 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (5th generation), and iPod touch (6th generation).



#03 – Heads Up!

By Warner Bros.

Category: Games / Price: \$0.99

Requires iOS 6.0 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).



#04 – Goat Simulator

By Coffee Stain Studios

Category: Games / Price: \$2.99

Requires iOS 6.0 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).



#05 – Five Nights at Freddy's 4

By Scott Cawthon

Category: Games / Price: \$2.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



#06 – Geometry Dash

By RobTop Games AB

Category: Games / Price: \$1.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.
This app is optimized for iPhone 5.



#07 – Grand Theft Auto: San Andreas

By Rockstar Games

Category: Games / Price: \$4.99

Requires iOS 6.0 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).



#08 – 7 Minute Workout Challenge

By Fitness Guide Inc

Category: Health & Fitness / Price: \$2.99

Requires iOS 6.0 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (3rd generation), iPod touch (5th generation), and iPod touch (6th generation).



#09 – Akinator the Genie

By Elokence

Category: Entertainment / Price: \$1.99

Requires iOS 7.0 or later. Compatible with iPhone 3GS-iPhone 6s, iPhone 6s Plus, iPad, iPod touch (2nd generation)-iPod touch (6th generation).



#10 – THE GAME OF LIFE Classic Edition

By Electronic Arts

Category: Games / Price: \$0.99

Requires iOS 5.1.1 or later. Compatible with iPhone 4S, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPad, iPod touch (5th generation), and iPod touch (6th generation).



#01 – GarageBand

By Apple

Category: Music / Price: \$4.99

Compatibility: OS X 10.9 or later



#02 – DaisyDisk

By Software Ambience Corp.

Category: Utilities / Price: \$9.99

Compatibility: OS X 10.10 or later, 64-bit processor



#03 – Logic Pro X

By Apple

Category: Music / Price: \$199.99

Compatibility: OS X 10.8.4 or later, 64-bit processor



#04 – AntiVirus Sentinel Pro

By Calin Popescu

Category: Utilities / Price: \$9.99

Compatibility: OS X 10.7 or later, 64-bit processor



#05 – Document Writer

By xiong feng

Category: Business / Price: \$9.99

Compatibility: OS X 10.7 or later



#06 – Notability

By Ginger Labs

Category: Productivity / Price: \$5.99

Compatibility: OS X 10.9 or later, 64-bit processor



#07 – Disk Doctor

By FIPLAB Ltd

Category: Utilities / Price: \$2.99

Compatibility: OS X 10.7.3 or later, 64-bit processor



#08 – 1Password

By FIPLAB Ltd

Category: Utilities / Price: \$2.99

Compatibility: OS X 10.7.3 or later, 64-bit processor



#09 – Final Cut Pro

By Apple

Category: Video / Price: \$299.99

Compatibility: OS X 10.10.4 or later, 64-bit processor



#10 – OS X Server

By Apple

Category: Utilities / Price: \$19.99

Compatibility: OS X 10.9.5 or later

TOP Paid Apps

Mac OS X

iTunes

Review

Movies
& TV Shows

Rotten Tomatoes



74%

Avengers: Age of Ultron

Tony Stark (Robert Downey Jr.), the human alter ego of Iron Man, attempts to revive a long-abandoned peacekeeping scheme, with disastrous results. Iron Man, plus the other Avengers including Captain America (Chris Evans), Thor (Chris Hemsworth) and Black Widow (Scarlett Johansson) soon have to counter the new threat of Ultron, making awkward alliances and spectacularly battling along the way.

FIVE FACTS:

1. This is the sequel to the hit 2012 film *The Avengers*.
2. The Ultron of the title is the main antagonist and a mechanical artificial intelligence.
3. In early 2014, it was announced that action scenes would be **filmed in Johannesburg and nearby places in South Africa**.
4. A few weeks later, South Korea was also announced as a filming location, chosen due to its **"cutting-edge technology, beautiful landscapes and spectacular architecture"**, according to producer Kevin Feige.
5. Only a month ahead of the theatrical release, it **was reported that Julie Delpy and Linda Cardellini were to have roles in the film**.



iTunes Preview



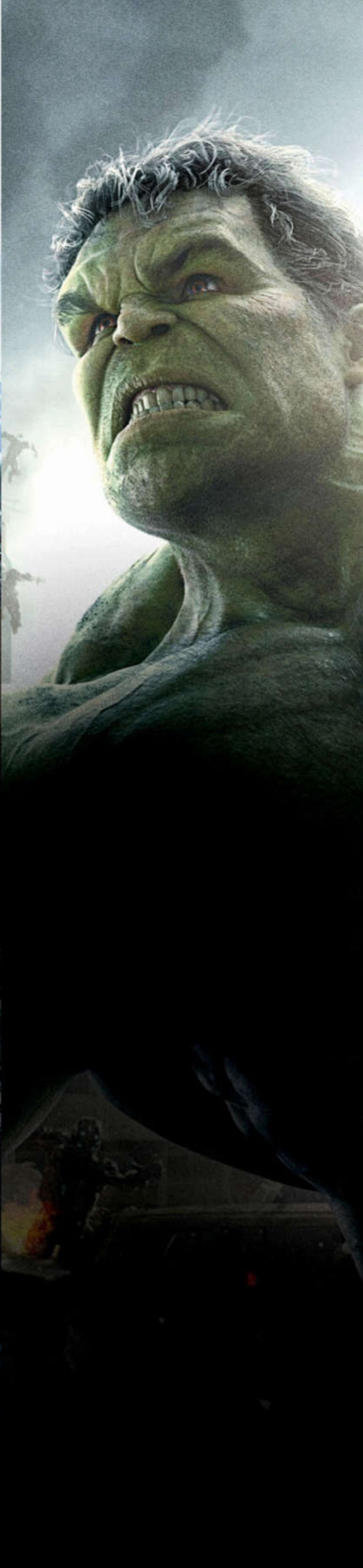
by Joss Whedon
Genre: Sci-Fi & Fantasy
Released: 2015
Price: \$19.99

★★★★★
1328 Ratings



Trailer

See more in
iTunes





Chris Hemsworth and Chris Evans Interview

The Overnight

Alex (Adam Scott) and Emily (Taylor Schilling) have moved with their son, RJ (RJ Hermes) to Eastside in Los Angeles. Having moved from Seattle, they are bewildered by their new home city and eager to make friends locally. They soon meet Kurt (Jason Schwartzman) and join him at his home for pizza - but, in the evening, after the kids have gone to bed, things take a more revealing turn...

FIVE FACTS:

1. The Overnight has been described as a **"sex comedy"**.
2. The film was written and directed by Patrick Brice.
3. **According to Brice at the San Francisco International Film Festival, filming was completed in just 12 days.**
4. The global premiere was **at the Sundance Film Festival on January 23, 2015.**
5. The Orchard outbidded rivals including Radius-TWC, A24, Roadside and Lionsgate to win the North American distribution rights to the movie.



Trailer



iTunes Preview



by Patrick Brice
Genre: Comedy
Released: 2015
Price: \$14.99

★★★★★
76 Ratings

Rotten Tomatoes



82%

* vernight



THE OVERNIGHT





Taylor Schilling Interview



iTunes

Review

Music

JESS GLYNNE | I CRY WHEN I LAUGH



iTunes Preview



Genre: Pop
Released: Sep 11, 2015
11 Songs
Price: \$7.99

★★★★★
191 Ratings



Right Here

I Cry When I Laugh

Jess Glynne

You might not have realized it, but the British singer-songwriter Jess Glynne made her first big chart impact on this side of the Atlantic a long time ago - as the guest vocalist on electronic group Clean Bandit's "Rather Be" in early 2014. If you enjoyed Jess Glynne on that song, here's her first album of solo compositions.

FIVE FACTS:

1. Glynne has revealed that she originally decided to start writing songs **after hearing Lauryn Hill's classic album *The Miseducation of Lauryn Hill***.
2. Glynne **met songwriter Jin Jin, who she would later notably collaborate with, while studying music at an East London college.**
3. It was through Jin Jin that she met another future collaborator, producer Bless Beats.
4. "Rather Be" reached the top ten of the Billboard Hot 100 chart.
5. In December 2014, the song was also **ranked fourth in Billboard's list of the year's 10 best songs.**



Interview at Coachella



I Am (Deluxe)

Leona Lewis

London-raised singer-songwriter Leona Lewis first rose to fame in Britain during her victorious stint in the national talent show *The X Factor* in 2006. Just two years later, her debut album, *Spirit*, topped the Billboard 200 album chart - making her the first British female solo artist to reach this coveted spot in over two decades. *I Am* is her fifth studio album.

FIVE FACTS:

1. With *Spirit*, Lewis was **the first British female solo artist to reach number one in the Billboard 200 album chart since Sade's *Promise* in February 1986.**
2. She was also responsible for "I See You", the theme song of the James Cameron hit film *Avatar* in 2009.
3. Her debut as a movie actress was as Elena, a supporting character in the British romcom musical *Walking on Sunshine* last year.
4. Lewis recently told *The Telegraph* that **Berlin is her favorite city, praising the German capital for its "interesting cafés" and adding "I love the nightlife, too".**
5. The first single from *I Am* in the US is "Thunder", but this is actually the third single from the album in other markets.



Leona Lewis



iTunes Preview



Genre: Pop
Released: Sep 11, 2015
15 Songs
Price: \$9.99



216 Ratings



Thunder

Leona

Leona Lewis



Interview

Leona Lewis



Fire Under My Feet

FACEBOOK READY TO TEST BUTTON THAT GOES BEYOND 'LIKE'

The Facebook logo is displayed in white lowercase letters on a solid blue background, which appears to be a large screen at a conference.

Facebook may finally be getting a button that lets you quickly express something beyond a “like.”

Founder and CEO Mark Zuckerberg said Tuesday that people have been asking for a “dislike” button on the social media site for years.

Speaking at an event at Facebook’s Menlo Park, California, headquarters that was streamed live online, Zuckerberg acknowledged that “like” isn’t always appropriate for some posts - about a tragic news event, for example - when people might want to express empathy.

Zuckerberg said the company, however, has veered away from making a “dislike” button, which could be used to vote down other people’s posts. He said the new button is ready to be tested soon and could be rolled out broadly depending on how it does.

Online:


Highlights of Zuckerberg’s Q&A



HP TO JETTISON UP TO 30,000 JOBS AS PART OF SPINOFF



i n v e n



Hewlett-Packard Co. is preparing to shed up to another 30,000 jobs as the Silicon Valley pioneer launches into a new era in the same cost-cutting mode that has marred much of its recent history.

The purge announced Tuesday will occur within the newly formed Hewlett Packard Enterprise, a bundle of technology divisions focused on software, consulting and data analysis that is splitting off from the company's personal computer and printing operations.

The spinoff is scheduled to be completed by the end of next month, dooming 25,000 to 30,000 jobs within HP Enterprise. The target means 10 to 12 percent of the 252,000 workers joining HP Enterprise will lose their jobs as part of the company's effort to reduce its expenses by \$2 billion annually.

Roughly 50,000 workers will remain at HP Inc., which become the new name for the company retaining the PC and printer operations.

The cuts expand upon austerity measures that HP has been pursuing for years to offset the damage caused by acquisitions that haven't panned out and a technological shift from PCs to mobile devices that reduced demand for many of the company's key products.

HP has already jettisoned 55,000 jobs during past few years under CEO Meg Whitman, who will be the leader of spun-off HP Enterprise. In an illustration of how far HP has fallen, its job cuts are being made while many other technology companies better positioned to take advantage of the mobile evolution have been on hiring sprees.

For instance, Google's workforce has swelled by 25,000 employees, or 77 percent, during the past four years.

HP's layoffs have been a demoralizing blow to a company that provided a template for future Silicon Valley entrepreneurs when William Hewlett and David Packard founded it 76 years ago in a Palo Alto, California, garage. Hewlett and Packard later embraced an employee-friendly philosophy that became known as the "HP Way."

Things began to change at the outset of this century under former CEO Carly Fiorina, now a candidate for the Republican Party's nomination in the 2016 race for president. Fiorina engineered a \$25 billion acquisition of PC maker Compaq that angered many shareholders, including heirs of the company's founders. She cut more than 30,000 jobs before she was fired a decade ago.

Fiorina's successor, Mark Hurd, also lowered expenses through much of his tenure and orchestrated an acquisition of technology consultants EDS that many analysts believe did more harm than good. Hurd stepped down in 2010 in a dispute over his expenses and his involvement with an HP contractor.

Despite the upheaval, HP remains one of the world's biggest technology companies. HP Enterprise expects to have more than \$50 billion in annual revenue.

Whitman is touting the splintering of HP as a way to breathe new life into two companies that will be better suited to innovate in their own product areas and take care of their customers.





HP Enterprise focuses primarily on businesses and government agencies, while the PC and printing divisions depend on the consumer market for a significant chunk of their revenue.

“Hewlett Packard Enterprise will be smaller and more focused than HP is today,” Whitman promised in a Tuesday statement.





1-800-HOTEL

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HOTEL

HOTEL

TOP 10 SONGS

LINEBI
LINEB
LINEE
LINE
LINE
LINE

WHAT DO YOU MEAN?
JUSTIN BIEBER

WATCH ME (WHIP / NAE NAE)
SILENTO

CAN'T FEEL MY FACE
THE WEEKND

LOCKED AWAY (FEAT. ADAM LEVINE)
R. CITY

WILDEST DREAMS
TAYLOR SWIFT

SAME OLD LOVE
SELENA GOMEZ

HOTLINE BLING
DRAKE

STITCHES
SHAWN MENDES

MARVIN GAYE (FEAT. MEGHAN TRAINOR)
CHARLIE PUTH

HIT THE QUAN
IHEARTMEMPHIS





TOP 10 ALBUMS

ILLINOIS

BRETT ELDREDGE

1989

TAYLOR SWIFT

REVIVAL (DELUXE)

SELENA GOMEZ

KILL THE LIGHTS

LUKE BRYAN

PAPER GODS (DELUXE VERSION)

DURAN DURAN

BLURRYFACE

TWENTY ONE PILOTS

STRANGERS AGAIN

JUDY COLLINS

DESCENDANTS

(ORIGINAL TV MOVIE SOUNDTRACK)

VARIOUS ARTISTS

MONTEVALLO

SAM HUNT

NATHANIEL RATELIFF & THE NIGHT SWEATS

NATHANIEL RATELIFF & THE NIGHT SWEATS



OWN **TOP 10** **MUSIC VIDEOS**

WATCH ME (WHIP / NAE NAE)

SILENTO

WILDEST DREAMS

TAYLOR SWIFT

DRAG ME DOWN

ONE DIRECTION

BAD BLOOD (FEAT. KENDRICK LAMAR)

TAYLOR SWIFT

GOOD FOR YOU

SELENA GOMEZ

UPTOWN FUNK (FEAT. BRUNO MARS)

MARK RONSON

CAN'T FEEL MY FACE

THE WEEKND

MARVIN GAYE (FEAT. MEGHAN TRAINOR)

CHARLIE PUTH

CHEERLEADER (FELIX JAEHN REMIX)

OMI

WHERE ARE Ü NOW (WITH JUSTIN BIEBER)

JACK Ü, SKRILLEX & DIPLO

ILLUM WALK DEAM



IN THE
KING
AND

TOP 10 TV SHOWS

LACE TO THE FINISH

PROJECT RUNWAY, SEASON 14

EXPECT A MIRACLE

TEEN MOM, VOL. 12

SO CLOSE, YET SO FAR

FEAR THE WALKING DEAD, SEASON 1

THE OTHER DRAFT

THE LEAGUE, SEASON 7

LOST HOURS

CONTINUUM, SEASON 4

PILOT

FEAR THE WALKING DEAD, SEASON 1

EPS1.0_HELLOFRIEND.MOV

MR. ROBOT, SEASON 1

THE GIRL WHO GETS POSSESSED

AMERICA'S NEXT TOP MODEL, SEASON 22

A STORM IS COMING

THE REAL HOUSEWIVES OF ORANGE COUNTY, SEASON 10

GIRL MEETS I AM FARKLE

GIRL MEETS WORLD, VOL. 3

#1
NEW YORK
TIMES
BESTSELLING
AUTHOR

LE
H
A



TOP

10 BOOKS

MAKE ME

LEE CHILD

THE GIRL IN THE SPIDER'S WEB

DAVID LAGERCRANTZ

THE MARTIAN

ANDY WEIR

THE GIRL ON THE TRAIN

PAULA HAWKINS

THE CINDERELLA DEAL

JENNIFER CRUSIE

I CAN SEE CLEARLY NOW

DR. WAYNE W. DYER

THE LIE OF YOU

JANE LYTHELL

FRICTION

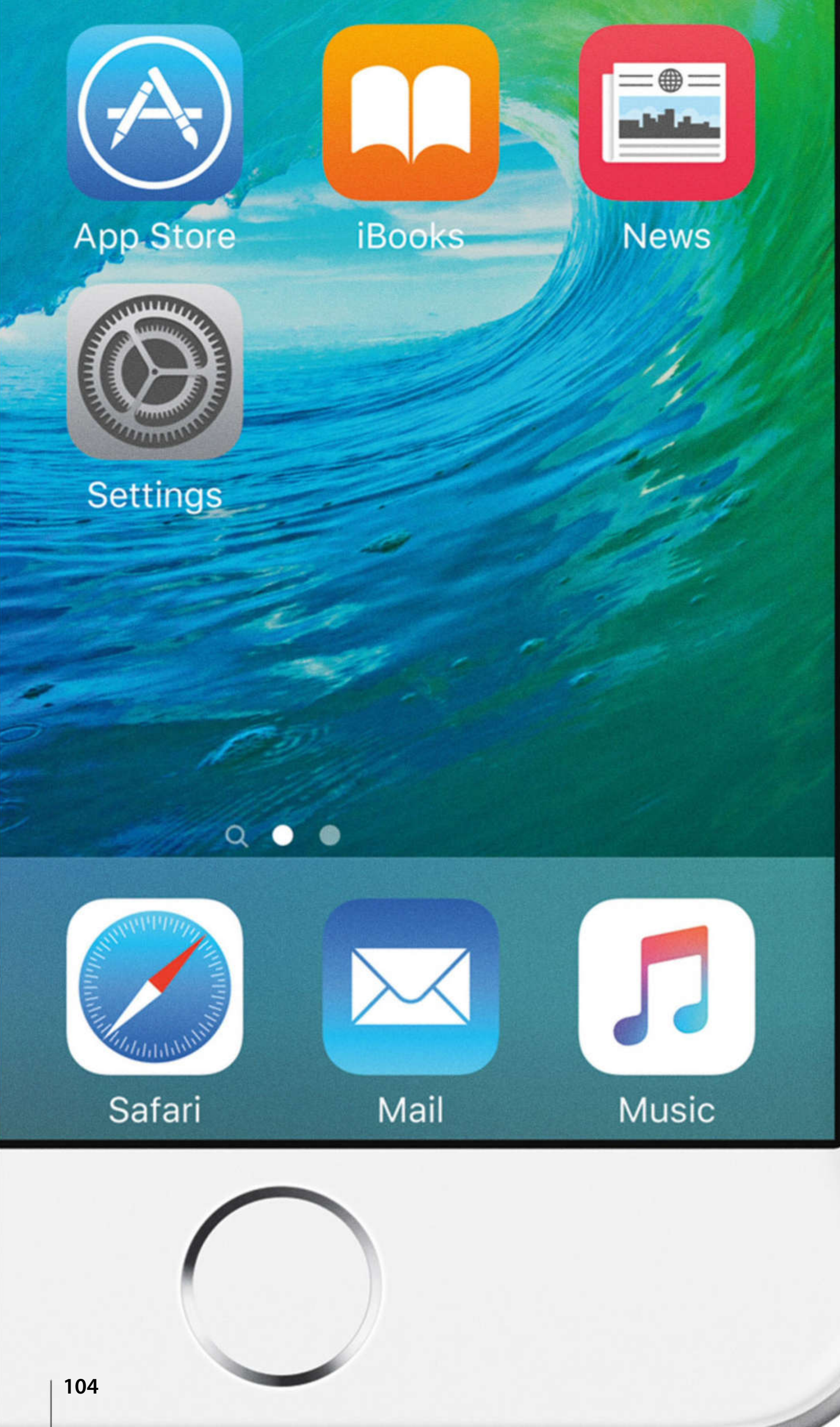
SANDRA BROWN

X

SUE GRAFTON

BLURRED LINES

LAUREN LAYNE



APPLE DELAYS WATCH SOFTWARE UPDATE DUE TO 'BUG'



Apple is delaying a big software update for the Apple Watch because it found a bug that is taking longer than expected to fix.

Apple Inc. said in a statement that it will not release watchOS 2, the new operating system for the Watch, on Wednesday as planned. It did not say when it will launch, only that it will happen "shortly."

The Cupertino, California, company has not said how many watches it has sold, though a recent report estimated it was about 3.6 million in the second quarter of this year. That's more than some analysts had forecast.

The public's response to the Apple Watch has been the subject of intense speculation. Critics have questioned whether it's useful enough for consumers to need or want one on their wrist.

It's all about Apple

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